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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/269,711	(04/05/1999	TAKESHI SAKAI	1/F3511PTUS	1469
513	7590	10/01/2002		•	
		ND & PONACK, I	EXAMINER		
2033 K STI SUITE 800			WANG, SHENGJUN		
WASHING	TON, DC	20006-1021		ART UNIT	PAPER NUMBER
				1617	
				DATE MAILED: 10/01/2002	28

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
•		09/269,711	SAKAI ET AL.			
Office Action	Summary	Examiner	Art Unit			
		Shengjun Wang	1617			
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply						
If the period for reply specified about 1 if NO period for reply is specified.	THIS COMMUNICATION ole under the provisions of 37 CFR failing date of this communication, ove is less than thirty (30) days, a reabove, the maximum statutory periox tended period for reply will, by statuater than three months after the mail	. 136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) Mute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
_	nmunication(s) filed on <u>11</u>	July 2002				
2a) ☐ This action is FIN		his action is non-final.				
3) Since this applicati	ion is in condition for allow		atters, prosecution as to the merits is C.D. 11, 453 O.G. 213.			
Disposition of Claims						
4)⊠ Claim(s) <u>40-47</u> is/a						
	im(s) is/are withdr	awn from consideration.				
5) Claim(s) is/a						
6)⊠ Claim(s) <u>40-47</u> is/ar —	•					
7) Claim(s) is/a	-	•				
8) Claim(s) are	subject to restriction and	or election requirement.				
Application Papers						
9) The specification is o						
10) The drawing(s) filed						
		- ' '	yance. See 37 CFR 1.85(a).			
			disapproved by the Examiner.			
	ed drawings are required in r	•				
12) ☐ The oath or declarati	•	xaminer.				
Priority under 35 U.S.C. §§ 1						
13) Acknowledgment is		gn priority under 35 U.S.C	. § 119(a)-(d) or (f).			
a)□ All b)□ Some * —	,					
<u> </u>	es of the priority docume					
2. Certified copi	es of the priority docume	nts have been received in	Application No			
applicatio	n from the International B	ority documents have bee cureau (PCT Rule 17.2(a)) at of the certified copies no				
14) Acknowledgment is m	nade of a claim for domes	tic priority under 35 U.S.C	C. § 119(e) (to a provisional application).			
a) The translation 15) Acknowledgment is n		rovisional application has stic priority under 35 U.S.0				
1) Notice of References Cited (PT 2) Notice of Draftsperson's Patent 3) Information Disclosure Statement	t Drawing Review (PTO-948)	5) Notice of	w Summary (PTO-413) Paper No(s) If Informal Patent Application (PTO-152) .			
I.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	Action Summary	Part of Paper No. 28			

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Art Unit: 1617

DETAILED ACTION

The Request for a Continued Examination (RCE) under 37 CFR 1.114 filed on July 11, 2002 based on parent Application No. 09/269711 is acceptable and a RCE has been established. An action on the RCE follows.

Disclosure Objection

1. The disclosure is objected to because of the following informalities: page 28, lines 16 recites "was dissolved I 900 ml of tap water..." It appears "900 ml" should be "900 liter" since in line 20 it recites "to give 1100 liters..."

Appropriate correction is required.

Claim Rejections 35 U.S.C 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 40-42 and 46 are rejected under 35 U.S.C. 102(b) as being anticipated by an old practice, e.g., drinking tea, eating mushroom or cereals. Tea, mushroom and cereal inherently contain glycerolipid. The intended function of the claimed method recited in the preamble "of inducing apoptosis" is not seen to further limiting instant method. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See

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In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPO 478, 481 (CCPA 1951).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 40-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hibino et al. (JP 01160988) in view of Gilchrest et al. (US patent 5,353,440), Giaccia et al. (US Patent 5,646,185) and Nakai et al. (U.WS. patent 5,672,603, of record), and in further view of Nelson ("Isolation and Purification of lipids from Biological Matrices," in Analysis of Fats, Oil and lipoproteins, Edited by Edward G. Perkins, 1993, of record).

Hibino et al teaches that a glycerolipid is useful for treating cancer. See the abstract.

Hibino et al. does not teach expressly to employ glycerolipid from tea, cereal or mushroom for introducing apoptosis.

However, Gilchrest et al. teaches that natural glycerol lipids (diacylglycerols) are known to be similarly active as physiological activator of PKC. See, column 3, lines 52 bridging column 4, lines 59. Giaccia et al. suggests that PKC activators, including diacylglycerols, are useful in treating cancers. See, particularly, column 6, lines 6-27, and column 12, lines 18-46.

Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed the invention was made, to employ natural glycerolipids, including those isolated from tea and mushroom, for treating cancers

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1. A person of ordinary skill in the art would have been motivated to employ natural glycerolipids, including those isolated from tea and mushroom, for treating cancers because all the natural glycerolipid are expected to be similarly useful in treating cancer. Regarding the functional limitation, "inducing apoptosis," note it is well settled patent law that mode of action elucidation does not impart patentable moment to otherwise old and obvious subject matter. Applicant's attention is directed to In re Swinehart, (169 USPQ 226 at 229) where the Court of Customs and Patent Appeals stated "is elementary that the mere recitation of a newly discovered function or property, inherently possessed by thing in the prior art, does not cause a claim drawn to those things to distinguish over the prior art." In the instant invention, the claims are directed to the ultimate utility set forth in the prior art, albeit distanced by various biochemical intermediates. The ultimate utility for the claimed compounds is old and well known rendering the claimed subject matter obvious to the skilled artisan. Further, Nakai et al. teaches that apoptosis is a physiological process which may occur under various physiological condition. See, column 1, lines 44-67. e.g., Apoptosis is involved in cancer treatment when the cancer cells are killed. See column 2, lines 15-39. It is concluded that apoptosis regulating compounds or composition are useful as anticancer agent, antiretroviral agent, and therapeutical agent for autoimmune disease, for thrombocytopenia, for Alzheimer's disease and for various types of hepatitis, tumor metastasis inhibiting agent. See, column 4, lines 45-51. Nelson teaches that acid treatment of materials containing lipid is a well-known technique for lipid separation and purification. See page 45. Nelson teaches that acid treatment of materials containing lipid is a well-known technique for lipid separation and purification. See page 45. Therefore, the claimed "method of inducing apoptosis would reading on treating cancers."

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Regarding the particular method of isolation and purification of glycerolipid, Nelson

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teaches that acid treatment of materials containing lipid is a well-known technique for lipid

separation and purification. See page 45. The employment of acid/base treatment in the process

of making the glyceroglycolipid is seen to be obvious since the separation/purification of prior

art glycerolipids would be expected to increase the concentration of the active glycerolipids in

the instant composition and is considered within the skill of artisan because acid treatment is a

well known technique for purification and separation.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shengjun Wang, Ph.D. whose telephone number is (703) 308-

4554. The examiner can normally be reached on Monday-Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sreeni Padmanabhan, can be reached on (703) 305-1877. The fax phone number for

the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1235.

Examiner

Shengjun Wang

September 27, 2002